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Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: markspencer

Timestamp: [year=2008; month=7; day=18; hr=9; min=12; sec=3; ms=130; ]

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Application No: 10585742 Version No: 1.0

**Input Set:****Output Set:**

**Started:** 2008-07-17 10:19:31.971  
**Finished:** 2008-07-17 10:19:33.170  
**Elapsed:** 0 hr(s) 0 min(s) 1 sec(s) 199 ms  
**Total Warnings:** 12  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 14  
**Actual SeqID Count:** 14

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| W 213      | Artificial or Unknown found in <213> in SEQ ID (1)  |
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| W 213      | Artificial or Unknown found in <213> in SEQ ID (14) |

SEQUENCE LISTING

<110> HIRAMATSU, Shingo  
 MORIYAMA, Hiromitsu  
 ASAOKA, Ryota  
 MORITA, Ken  
 TANAKA, Takashi  
 YAMADA, Katsushige  
 OBRIEN , John Philip  
 FAHNESTOCK , Stephen R.

<120> SILK THREAD CONTAINING SPIDER SILK THREAD PROTEIN AND  
 SILKWORM PRODUCING SAID SILK THREAD

<130> 5374-0101PUS1

<140> 10585742

<141> 2008-07-17

<150> PCT/JP2005/000619

<151> 2005-01-12

<150> JP 2004-005489

<151> 2004-01-13

<160> 14

<210> 1

<211> 101

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide derived from spider thread protein

<400> 1

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| Ser | Gln | Gly | Ala | Gly | Gln | Gly | Gly | Tyr | Gly | Gly | Leu | Gly | Ser | Gln | Gly |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Ala | Gly | Arg | Gly | Gly | Leu | Gly | Gly | Gln | Gly | Ala | Gly | Ala | Ala | Ala | Ala |
|     |     |     | 20  |     |     |     | 25  |     |     |     |     | 30  |     |     |     |
| Ala | Ala | Ala | Gly | Gly | Ala | Gly | Gln | Gly | Gly | Leu | Gly | Ser | Gln | Gly | Ala |
|     |     | 35  |     |     |     | 40  |     |     |     | 45  |     |     |     |     |     |
| Gly | Gln | Gly | Ala | Gly | Ala | Ala | Ala | Ala | Ala | Ala | Gly | Gly | Ala | Gly | Gln |
|     | 50  |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |     |
| Gly | Gly | Tyr | Gly | Gly | Leu | Gly | Ser | Gln | Gly | Ala | Gly | Arg | Gly | Gly | Gln |
| 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |     |
| Gly | Ala | Gly | Ala | Ala | Ala | Ala | Ala | Gly | Gly | Ala | Gly | Gln | Gly | Gly |     |
|     |     |     | 85  |     |     |     | 90  |     |     |     |     | 95  |     |     |     |
| Tyr | Gly | Gly | Leu | Gly |     |     |     |     |     |     |     |     |     |     |     |
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<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide derived from spider thread protein

<400> 2

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      20      25      30
Gly Ala Gly Gly Ser Gly Pro Gly Gln Gln Gly Pro Gly Gly Tyr Gly
      35      40      45
Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
      50      55      60
Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
65      70      75      80
Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
      85      90      95
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<211> 33

<212> PRT

<213> Bombyx mori

<400> 3

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Pro Arg Arg Gln Leu Val Val Lys Phe Arg Ala Leu Pro Cys Val Asn
      20      25      30
Cys
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<210> 4

<211> 35

<212> PRT

<213> Bombyx mori

<400> 4

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Met Arg Val Lys Thr Phe Val Ile Leu Cys Cys Ala Leu Gln Tyr Val
1      5      10      15
Ala Tyr Thr Asn Ala Asn Ile Asn Asp Phe Asp Glu Asp Tyr Phe Gly
      20      25      30
Ser Asp Val
      35
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<210> 5

<211> 27

<212> DNA

<213> Artificial Sequence

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<223> Chemically synthesized primer

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aatggcgcgc cgaggagaaag catgaag

27

<210> 6

<211> 30

<212> DNA

<213> Artificial Sequence

<220>  
<223> Chemically synthesized primer

<400> 6  
catggatccg acatcactcc caaaatagtc 30

<210> 7  
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gaatgctacc tcgaggttat gaaaatg 27

<210> 9  
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<212> DNA  
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<220>  
<223> Chemically synthesized primer

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gctggatccc gcagttacga ctattctcgt cgt 33

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<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized sequence

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Cys Gly Pro Gly Gln Gln Gly Pro Gly Gly Tyr Gly Pro Gly Gln Gln  
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Gly Pro Ser

<210> 13

<211> 6

<212> PRT

<213> Artificial Sequence

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<223> Segment in the natural spider thread protein, spidroin2

<400> 13

Gly Gly Tyr Gly Pro Gly  
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<210> 14

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Segment in the natural spider thread protein, spidroin2

<400> 14

Gly Pro Gly Gln Gln  
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